

Kensington Area Improvement Cost and Benefits

Short Term Improvements

#	Location	Proposed Improvement	Cost	Benefit (with Existing Condition)	Priority
S-A	Southbound and Northbound approaches at MD 185/ Plyers Mill Road intersection, bus stops on MD 185 Northbound at Safeway and former Shell station, and signals along MD 185 corridor.	<p>Lengthen southbound left turn lane (400 feet) at Plyers Mill Road and reduce the northbound leftmost left turn lane at the MD 185/MD 193 intersection</p> <p>Add a northbound right turn lane requiring northbound Connecticut Avenue widening north of the railroad bridge (125 feet). Will have some utility impacts</p> <p>Remove the bus stop at Shell Station and consolidate with the MD 185 bus stop at Safeway (Planned Summer 2018)</p> <p>Consider Adaptive Traffic Management "Smart" Signal Technology - collaborate with MDOT SHA to add to corridor to program.</p>	\$2,140,000	<p>1 - Remove occurrences of Southbound MD 185 thru traffic blocked by left turn queue at Plyers Mill Road in AM peak</p> <p>2 - Reduce Southbound MD 185 travel times between 8-38% in AM peak and Northbound MD 185 travel times between 28-30% in PM</p> <p>3 - Improve the PM intersection LOS from E to D for MD 185 at Plyers Mill Road</p> <p>4 - Reduce interference with MD 185 Northbound traffic from stopped buses</p> <p>5 - Maximize efficiency of signal system along MD 185</p>	1
S-B	Eastbound approach at MD 185/ Plyers Mill Road intersection and Plyers Mill Road at Metropolitan Avenue (MD 192) intersection	<p>Lengthen eastbound left turn lane at MD 185 (200 feet) requiring widening of south side of the Plyers Mill Road</p> <p>Convert traffic signal from flashing operation to full operation, coordinating with MD 185/Plyers Mill Road signal</p> <p>Signing and marking improvements</p>	\$330,000	<p>1 - Reduce Eastbound Plyers Mill queueing at MD 185, including the average queue by 190 feet in PM peak</p> <p>2 - Improve overall MD 192/Plyers Mill intersection LOS from C to B in AM peak, Eastbound approach from C to B in PM peak</p> <p>3 - Reduce the eastbound right turn queues onto MD 192 within available storage space on Plyers Mill Road in PM peak</p>	2
S-C	Eastbound approach of MD 547/ Summit Avenue intersection and Summit Avenue between Knowles Avenue and Howard Avenue	<p>Lengthen the eastbound left turn lane (200 feet) on Knowles Avenue to Summit Avenue via restriping</p> <p>"Clean Up" Summit Avenue by rehabilitating pavement</p>	\$650,000	<p>1 - Reduce Eastbound MD 547 queues at Summit Avenue by 20-30% in the PM peak</p> <p>2 - Improved traveling conditions along Summit Avenue</p>	3

Long Term Improvements

#	Proposed Improvement	Cost	Benefit (with 2040 Condition)
L1	<p>Extend Summit Avenue from Plyers Mill Road to MD 193 - Original Alternative 1</p> <p style="text-align: center;">High cost and potential impacts</p>	\$19.0M	<p>Improve intersection LOS (MD 185/Plyers Mill : F to E in AM, MD 185/MD 547: D to C in PM), other intersection delay reductions along MD 185</p> <p>Reduce Southbound travel times by 17%-65% in AM peak, and Northbound travel times by 25%-35% in PM peak</p>
L2	<p>Extend Summit Avenue from Plyers Mill Road to Dupont Avenue and provide signal at MD 185/ Dupont Avenue</p> <p style="text-align: center;">High cost and potential impacts</p>	\$7.1M	<p>Improve intersection LOS (MD 185/Plyers Mill : F to E in AM, MD 185/MD 547: D to C in PM), intersection delay reductions along MD 185</p> <p>Reduce Southbound travel times by 15%-47% in AM peak, and Northbound travel times by 4-27% in PM peak</p>
L3	<p>Widen MD 185 railroad bridge with addition of MD 185 Northbound right turn lane at Plyers Mill Road, addition of MD 185 Southbound right turn lane at Howard Avenue, and with an extension of Plyers Mill Eastbound left turn lane by 250 feet</p> <p style="text-align: center;">Consider for long-term improvement consistent with bridge replacement needs</p>	<p>\$6.0M</p> <p>(NO ROW based on GIS)</p>	<p>Improve intersection LOS (MD 185/Plyers Mill : F to E in PM)</p> <p>Reduce Southbound travel times by 6%-40% in AM peak, with Southbound diversion along Howard Avenue, and Northbound travel times by 12%-28% in PM peak</p>
L4	<p>Provide Dynamic Reversible Lane Operation on MD 185 between Knowles Avenue and MD 193</p> <p style="text-align: center;">Consider for long-term improvement in cooperation with MDOT State Highway Administration. Potential Negative Impacts to pedestrian crossings of MD 185</p>	\$2.8M	<p>Improve intersection LOS (MD 185/Plyers Mill : F to D in AM, F to E in PM)</p> <p>Reduce Southbound travel times by 40-70%, and increase Northbound by 12-26% in AM peak. Reduce Northbound travel times by 35%-50%, and increase Southbound by 6-9% in PM peak.</p>